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<120> Compositions and Methods Relating to Breast Specific Genes and Proteins

<130> DEX-0270

<150> 60/249,998

<151> 2000-11-20

<150> 60/252,563

<151> 2000-11-22

<160> 137

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<211> 452
<212> DNA
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10

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aacaacacac cgagcataga caagggaata acgagaaaca gcaaactagc aaaccactgg     1260
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acaacagAAC aaacagaaac aaagcaacac atacagagga ggacagcagc ataaccgcac     1380
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<210> 18

<211> 581
<212> DNA
<213> Homo sapien

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aaaaaatggg ggggggttggg tggattgggg ggcaaccaat ttaaaactcg tgtttttccc 180
cctagggagg ttagggagaa gtatatattcc caattttccc caaacggggg gttatgaggt 240
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<210> 19
<211> 901
<212> DNA
<213> Homo sapien

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attttctacc ctttcgagca aagcgtgggg cactttctca tttgactcac gcctgtaggt 660
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ccccaggtt tagctcgaa gcacgcctat cggagactat ggattgagcc gcccgataag 780
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a 901

<210> 20
<211> 658
<212> DNA
<213> Homo sapien

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<223> a, c, g or t

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<223> a, c, g or t

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<223> a, c, g or t

<220>
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<223> a, c, g or t

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<223> a, c, g or t

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<223> a, c, g or t

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<223> a, c, g or t

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<223> a, c, g or t

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<223> a, c, g or t

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<223> a, c, g or t

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<223> a, c, g or t

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<223> a, c, g or t

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<223> a, c, g or t

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<223> a, c, g or t

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<223> a, c, g or t

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<223> a, c, g or t

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<223> a, c, g or t

<220>
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<223> a, c, g or t

<220>
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<222> (460)..(462)
<223> a, c, g or t

<220>
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<222> (492)..(493)
<223> a, c, g or t

<220>
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<222> (521)..(522)
<223> a, c, g or t

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acaacacaca aaacaaacaa acggcttggg cgcgtaatcc ggtgggcaa agcggggtcc 600
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<210> 21
<211> 969
<212> DNA
<213> Homo sapien

<220>
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<222> (447)..(447)
<223> a, c, g or t

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<210> 22
 <211> 709
 <212> DNA
 <213> Homo sapien

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 <222> (243)..(243)
 <223> a, c, g or t

<220>
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 <222> (617)..(617)
 <223> a, c, g or t

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 tccggttccc cgggcggggg gtaaaagggg gacaagggtt ttttcaccgg ttgtggcctt 180
 cgggggtttgg gagggcttta aaaccaccca ctctccgcca aacaatcttt gtgcgacgtt 240
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 tcgcaacacc cgtgggtcca cgccacttct ctctccaaca acacgtgctt ggggggtgtg 360
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 cggcgtgctg cagccagacc acgcgaaagt ccagagaaag atgcaagacc aagcacgaac 540
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 agcagcacag aaccagnaga gcaccaacaa gcaagacaga caaacgcaag ccagcaggag 660
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<210> 23
 <211> 402
 <212> DNA
 <213> Homo sapien

<400> 23
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18

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<210> 24
<211> 1441
<212> DNA
<213> Homo sapien

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<222> (155)..(155)
<223> a, c, g or t

<220>
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<222> (247)..(247)
<223> a, c, g or t

<220>
<221> misc_feature
<222> (394)..(394)
<223> a, c, g or t

<220>
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<222> (533)..(533)
<223> a, c, g or t

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gagttgtgca agaggtgggc atagtgggtc tcacnaaaac acatctcaga gtgggtttaa 180
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gtgttaaaac aagcgagag aatatagac gcanctataa gggcgagaga aatatataac 420
aatatgtgtg ggcacagag agcggttatg tgtgcacata ttctctcaca cagagatata 480

19

gcgacattct ctcttatata aaattctcac gggatttcta cagcgctctc tcnacacaag 540
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<210> 25
 <211> 854
 <212> DNA
 <213> Homo sapien

<400> 25
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20

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<210> 26
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<212> DNA
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<223> a, c, g or t

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<223> a, c, g or t

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<222> (1364)..(1364)
<223> a, c, g or t

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21

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 <211> 698
 <212> DNA
 <213> Homo sapien

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22

taaaaaagtc cttggtgggc gataaacctc cgagggcaca caaaaagagt gtgttctccc 600
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<210> 28
<211> 393
<212> DNA
<213> Homo sapien

<400> 28
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<210> 29
<211> 3470
<212> DNA
<213> Homo sapien

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aagccagttg gccccctcc agagagagac attgctagcc tgcctgagg accccgctg 540
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24

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<213> Homo sapien

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<212> DNA
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<210> 38
<211> 710
<212> DNA
<213> Homo sapien

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 taaataaaca ggggtttttt tttttttaa gagcagccaa gcacaaagtg gtgacctgt 540
 tgacttttta tgcgactttg tcatatgttc ctaaccccca ataaaagcaa tgtggcatca 600
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 cccgggggtg aattgtttt cgcaccaaat tcccaccatt ggaaaaaaaa 710

<210> 39
 <211> 2399
 <212> DNA
 <213> Homo sapien

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 gataagatca aaaacaaaac caagcaaaag atgagttcag gggagtttgc catcaagttg 420
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 <211> 538
 <212> DNA
 <213> Homo sapien

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<210> 41
<211> 1643
<212> DNA
<213> Homo sapien

<400> 41
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<210> 42
 <211> 711
 <212> DNA
 <213> Homo sapien

<400> 42
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<210> 43
 <211> 5520
 <212> DNA
 <213> Homo sapien

<400> 43
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 <213> Homo sapien

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 <223> a, c, g or t

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40

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<211> 589
<212> DNA
<213> Homo sapien

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<212> DNA
<213> Homo sapien

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aaactgcagc tgatgcgttc ctcgaggttc tctttgagat ggaaacgagc cggctgctcg 240
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cctgtggatg gagtgtgtaa ctacagcaca cattttaaag aaatctctgt taatcgccctc 420
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<213> Homo sapien

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<213> Homo sapien

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42

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<212> DNA
<213> Homo sapien

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<223> a, c, g or t

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43

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<210> 51
<211> 150
<212> DNA
<213> Homo sapien

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 <212> DNA
 <213> Homo sapien

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45

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 <212> DNA
 <213> Homo sapien

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<210> 54
 <211> 217
 <212> DNA
 <213> Homo sapien

<400> 54
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<210> 55
 <211> 2054
 <212> DNA
 <213> Homo sapien

<400> 55
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 <212> DNA
 <213> Homo sapien

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52

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tgtgatttga ttatctgtac aaagaaagaa gctctatgca gtgagtttgt ggtttaatgg 8520
tcacaaaaat gttagcactg ctaccactca gcacgtgtaa aatttttttaa atttataaat 8580
attaaaattt taaacttaca ctaagacttt tcagttttat ttaaagaccc agggatgagt 8640
gtactgttta aatatttacc tctattaaca taactaatga aggtataaaa ttgcatttag 8700
tttttcagaa gatgctgcaa tatgatttta ggaaataagg ctatgtattg agccagttat 8760
aggctgaata tcaggttgat aaaattttat ttgtattttt aaaattcata aatgggagtt 8820
aaaatgtgtc ttttactaa atatttttat tacaaaaaaa aaaaaaaaaa aaaaaaaaaa 8880
aaaaaaaaaa aaaaaactgc ggcc 8904

<210> 65
<211> 241
<212> DNA
<213> Homo sapien

<400> 65
acggtgcttg gcacattaat tcctttcctc ttttcccctc actgccaaat gagctattgc 60
cactcacttg atatgcaaac actggctgtc tagtatggaa aaatattttt ctggctgtag 120
acttgagttt gattacaaa ttgatttctg tgaattacat ttcaattctg tgcagaactt 180
tttgacagcc ctttaatcac catgtatcca ataaatattt attaaagaca tattctgtga 240
c 241

<210> 66
<211> 368
<212> DNA
<213> Homo sapien

<400> 66
ccaataaatt gaatactgaa tatttggaca attgcctctc tctaagtgtc ctagaagctt 60
ctagagggaa ggaatcttgt cttatacatt aaaaaaaaaa aaaaaaaagt cttatccagt 120
ctgaagtacg gtgcctggca cattaattcc tttcctcttt tcccctcact gccaaatgag 180
ctattgccac tcacttgata tgcaaacact ggctgtctag tatggaaaaa tatttttctg 240
gctgtagact tgagtttgat taccaaattg atttctgtga attacatttc aattctgtgc 300
agaacttttt gacagccctt taatcaccat gtatccaata aatatttatt aaagacatat 360
tctgtgac 368

<210> 67
<211> 745
<212> DNA

<213> Homo sapien

<400> 67

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tggtcgcggc cgagg tacta atttttgctc ccaccagctg gagggggagg ggccaaattt      60
ccatat ttgc aaatctggga gacgaacaat ggtgtgtttt ttatgcctct tattacgaat      120
gagtttgaac atcttttcaa atatttaaga gtcacctgta gtcatttttc cataaactgt      180
cagttcatat cctttgcccc cttttttatt ggcttttggt ctttttcctg ttgagttgta      240
aaagcacttt tcatgttaag ggaatttgct ctttgtctat tatatggtta tactgtcatt      300
taaacatggg ggcatagttg cttatagaat gtctgaacca tatgcgtcat tgtagatat      360
ttatat tggg tctcatttct cttgtattat atactgggat gttttccctg ctttttctgt      420
ccccatcaac aacacacaaa acacacacac cccaaacccc ggcgcggaac acacaggggc      480
acctacctgc cccccggggg gtgacaccgt ccgatcaccg cggtcccaaa attccccaca      540
gcacaactat cgccgacgca acagggccac tgaataccgc cacagagcga cagcgacga      600
cttcacaccg cgaccgtacg acgcacacgg caacacaaag acgcgccgag gcaaccacat      660
acggacacgc gagaacggca gatggcgacc acgcgccaaa cccaccaaga gcacaacaca      720
cagaaccacg cacaacgcac gccca                                           745
```

<210> 68

<211> 1064

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (93)..(93)

<223> a, c, g or t

<400> 68

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ctctaacttg ggtttttttt ttttaactt agtgcaattt ggaaatcttt ctacatcaaa      60
attttaaaat ctgcccttcc cctctttctt ttnaacagct gcctagtatt tcaccgatg      120
actgctctgt aattgatcta acagttgtag aacacttagg ttatttcctg tcttttgcta      180
tttcaacagt gctgtaatga atatccttgg tcaggcatca tttttcatac gtgggagtga      240
atctttaaga aaaccaggag tggatttgca aggtcaaggg gaatatgcag tttgaacttg      300
gataaataag gcaaattatc ccccttaaa tgttg tacta atttttgctc ccaccagctg      360
gagggggagg ggccaaattt ccatat ttgc aaatctggga gacgaacaat ggtgtgtttt      420
ttatgcctct tattacgaat gagtttgaac atcttttcaa atatttaaga gtcacctgta      480
gtcatttttc cataaactgt cagttcatat cctttgcccc cttttttatt ggcttttggt      540
```

```

cttttccctg ttgagttgta aaagcacttt tcatgttaag ggaatttgct ctttgtctat 600
tatatgggta tactgtcatt taatatgggtg gcatagttgc ttatagaatg tctgaaccat 660
atgcgtcatt gttagatatt tatattgggt ctcatttctc ttgtattata tactgggatg 720
ttttccctgc tttttctgtc cccatcaaca acacacaaaa cacacacacc ccaaaccgcc 780
gcgcggaaaa cacaggggca cctacctgcc ccccgggggg tgacaccgct cgatcaccgc 840
gggtccaaaa ttccccacag cacaactatc gccgacgcaa cagggccact gaataccgcc 900
acagagcgac acgcgacgac ttcacaccgc gaccgtacga cgcacacggc aacacaaaga 960
cgcgccgagg caaccacata cggacacgag agaacggcag atggcgacca cgcgccaaac 1020
ccaccaagag cacaacacac agaaccacgc acaacgcacg ccca 1064

```

<210> 69
 <211> 549
 <212> DNA
 <213> Homo sapien

```

<400> 69
agatgatgac tcatatggcg aatgggcact aatgcatgct cgagcggcgc agtgtgatgg 60
attggtcgcg ggggaggtag tcttgaggac attttgtcag attaaactata acagtgtagt 120
gtagttttta aaatgcagtg aaaagttag ctgtctggaa gtcaaattta tccaatgttc 180
agacttctgt tactacttaa tatgaagcca ccatgctggc tggacagaat taatttcatt 240
catgttatgg agaattctat attacaaatc tgggtcccta taatatgaac aggagcagtc 300
agaaatatac aaagggttaa atagggtaaa gacttggcca agaaaggaaa ggccttagtt 360
ctaccataga gtatcttctc taattaaaat gacgggaaat atatggaagc agaaaccagc 420
acaaagcact acccatctag aaataatctt tcagttaaaa aacaactctc aaaaccagca 480
ctcatttctc taagataggt tataagtatt ttacgatttc tgtgttatat taacatctgg 540
ttaaaggta 549

```

<210> 70
 <211> 774
 <212> DNA
 <213> Homo sapien

```

<400> 70
ttttttttt aactggttgt aaaaaagggt tatttgtgac aaaaagttaa gtactaaagc 60
taaaaacata taaattcagg tcaggctata ttaaaatata cacataccct tctttgcaaa 120
attattaaag gttgaattaa acagatgctt taaataaaat aaagtactct tgaggacatt 180

```

61

tttgtcagat taactataac agtgtagtgt agttttttaa attgcagttg aaaagtttag 240
ctgtcttgga agtcaaattt atccaattgt tcagacttct gttactactt aatatgaagc 300
caccatgctg gcttggacag aattaatttc attcatgtta tggagaattc tatattacaa 360
atctggcccc ctataatatg aacagtgagc agtcagaaat atacaaaggg ttaaataggg 420
taaagacttt ggccaagaaa ggaaaggcct tagttctacc atagagtatc ttctctaatt 480
aaaatgactg ggaaatatat ggaagcagaa accagcacia agcactaccc atctagaat 540
aatctttcag ttaaaaaaca actctcaaaa ccagcactca tttctctaag ataggttata 600
agtattttac gatttcttgt tatattaaat tgagttaaag gtactgacaa gtcaatatgc 660
aaatggggtt aaacactaat ttgatttctc ttctgactag ctctggagag ctgtgacatc 720
tggatgttgg tgcccagttg gtgtggagtg tgtagttttg ttatgaaagt tctc 774

<210> 71
<211> 881
<212> DNA
<213> Homo sapien

<220>
<221> misc_feature
<222> (601)..(601)
<223> a, c, g or t

<400> 71
cgcccgaggt acattgaaac cccatataacc cttcacctag attcaccagt gtagcgcct 60
ggtgatattt tccatatcta tgtatatgtg tgggatgtga atatatttct ttttctttcc 120
gttgcttctg gctaaacgtt gagacctcat gatacttcac ccccatatat atcagcatgt 180
atctcccagg atgaagaata ctcttccatg aaatcataat acaattatca cagtaaacad 240
gtttcaacac aactatctaa gttagggctc atattaaaaa ctctcagtt atcatactaa 300
tgcccacatg tttctccatt tgttgatcat cccatcatga ttagattaag tagtttgtca 360
ggaatacaac ataggtgaag ttgtatcctc atgtatcaca tcaggagata ttctgtcacc 420
cattataagt aatattaact ttaattactt gatatatggg tttctgctg tgcaacaaat 480
taccacaaac tgagcatgta ttgcatgtga aacaacacc ttgtagttct gtagattata 540
aatctggctg ggtttccctg ctcaagattt tacaaggcca aagtcaaggc cttggccggg 600
nctaggctct tacctggagg ctctggggaa gaatctgttt ccaaggctca ttcaggttgt 660
gaccgaattt agtttcttgg tggcaggccc aggggctcac acctgtaaaa ccagcagttt 720
gggaggccga gggggggtgg atcacttgtg atcaggggtt tgggaccagc tggcaacatg 780

62

tggaatggtg ctctctctaaa ataccaaaat agccgggtgg gggagcgcgt atcacgatat 840

ccgggggggg ggggggtgtg tacccttcc tcctaggagg g 881

<210> 72

<211> 1735

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1024)..(1024)

<223> a, c, g or t

<400> 72

atataatcct tagccagtct ataaaagatc tctggtctgc ataggcagta gcttggactg 60

tccattctaa tctaccccaa tagtttatct tatttacagt ttttatttat agtttctttt 120

acttagtagt tattacaata aataacatcg acccaatata actatctaag atagggccct 180

tattcaaaat gcctttttac cagctaaaac tgtttaaata ttgctaacac ctgaaactat 240

agttcgaaca caggtattta tgggagcagg gaaaaaagaa caaaaaacag ttaacaagca 300

tattctgtaa aaattgttag gattttgttt tgcttaatac atttttaaaa aatgttcttc 360

ctcaattttt tactttgaac aatttcaaac ctacagaaaa gttgaatgaa ttagtacata 420

gaaaccccat atacccttca cctagattca ccagtgttag cgctgggtga tattttccat 480

atctatgtat atgtgtggga tgtgaatata tttctttttc ttccggttg cttcttggtc 540

aaactgtttg agacctcatg atacttcacc cccatatata tcagcatgta tctcccagga 600

tgaagaatac tcttccatga aatcataata caattatcac agtaaacatt gtttcaacac 660

aactatctaa gttagggctct atattaaaaa ctctcagtt atcatactaa tgcccacatg 720

tttctccatt ttgtttggat ccacccatc atggattagg attaatggta tttttgtcag 780

ggaatacaac ataggtgaag ttgtaatcct catggtatca catcaggaga tattctggtc 840

accattata agtaatatta actttaatta cttgatatat gggttttctg ctgtgcaaca 900

aattaccaca aactgagcat gtattgcatg tgaaacaaca ccctttagt tctgtagatt 960

ataaatctgg ctgggtttcc ctgctcaaga ttttacaagg ccaaagtcaa ggtcttggcc 1020

gggnctaggc tcttacctgg aggcctctgg gaagaatctg tgtccaagct cattcagttg 1080

ctggcagaat ccagttcctt ggggtttag gactgatgtc cccatttatt gctgaatac 1140

cactgaggt tactctcagc tctgtaagc tgcttttggg ttctttccac atggaccct 1200

ccatcttcaa agccaggaat ggaagatttc tctcatattg aatatcttct ctctgacttc 1260

63

tccttgtatt atcaactgga gaaaacactc tgctttttaa gcattctcct cccaatgagt 1320
gggaaatccc ctcttctctt tctagcactg tttctgtgac tcctggagag gtgctcagga 1380
ggtagacca tggcctgcat tcaccgctga agctgaaggc tgccttggcg aagacagggt 1440
ttgtcaaagt agtggctgtg aatgtgacct tacgtaaaaa taaggtttct gcggatggta 1500
tcaagaagag gttatgagag ggccctttat cactgcgac tggtgccctt ataagaggaa 1560
aattttgacc cagaggcaca caaggagagc tccatgtgac aatagaggga cagattggag 1620
ggatgcagct gcaagcaaag gaacgccgag gattgacggc caccatcaga agcttgggtgc 1680
aagacaccgt cctctcacct ggattattgc cgaagctgct aacttgtctc tccat 1735

<210> 73
<211> 429
<212> DNA
<213> Homo sapien

<220>
<221> misc_feature
<222> (231)..(231)
<223> a, c, g or t

<220>
<221> misc_feature
<222> (245)..(246)
<223> a, c, g or t

<400> 73
acttttttag tatttacctg ttacaaagga cattgtgttt cctgtcatgt aaaaccagct 60
attttagtta ctattgtact ctagaaaaga gctgtagatt tatgttaaac tcgtacttac 120
gaacaattgt aattagttct aaaaggcatg aactcagctc ctaatcgtca ctgtatagtc 180
ctgaatttgt agaactagag ttaattccct ttcttggaaa ctttctcttt ntgtgtctct 240
caagnntagt tacttttttc cttacctaaa aggggtgtct gtcacaacca agtctccctt 300
cgaaccatta acaacttttc ctggtgtatt cgacaacaaa aaaaacaaaa aacaaaaaaa 360
aaggctgggg gaacacaggg ccacaggggt ccccgggggg agaaactggg catacccggc 420
ctacaaaat 429

<210> 74
<211> 563
<212> DNA
<213> Homo sapien

<220>
<221> misc_feature

<222> (49) .. (49)

<223> a, c, g or t

<400> 74

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gatgattatc actataggca cttcgggtctc taatgctgct cgagcggcnc cagttgtatg      60
gatccgcccc ggcagggtctt attcatacac atttcacttg gctttttacc cctaggaaat      120
aattgtccaa gtatatatct cgtcttcttt cttgtaactt tgattaaact gcttacttca      180
acttacaaca ttgtaaagcc agaatacctc attttaacag tgaaaaaaaa tatgatgacc      240
tgatgtgttc tcttgtattt gatttgaact acctaaatag gcttaactgt aataataaat      300
atacaatttt ggcaggcatt ttttcctttg tttggatgaa cattttgtta ttggtccact      360
tctaattttg tcttaaagag ttataactca gtgtcaataa aacatcttgt tatattaagt      420
tattggcaaa aaaaaaccac aaacaaaaaa acaaaaaaaa cctttgggat tacccaagtg      480
gccatatact atttccttgt gtttctaaaa ttgtgtttct ctccgcttca acattttccc      540
acaaaaatth caccaacaaa agt                                         563
```

<210> 75

<211> 1775

<212> DNA

<213> Homo sapien

<400> 75

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ttacaaccat tgccttggga cacacagagt gaactgtttg agtgataagt aatttaggta      60
gaaactttac ccttaatttc aaatgatacc aaacagctca ttactacccc aagggaagct      120
ctccgtagct tctggattcc ccagtttctt tctagaaaca aggactccaa tagcactata      180
accctaaaca ggcctaacc cagaagaata caccacaaaa tgcgattgat tttctcaaaa      240
tatcacagtc ttagacacta tacaataat tcaagaaaat tctttctacc ctgcagtggga      300
tatagtattc tattatattc tccagcaaaa cttttaggac ttttcaaact catttctaag      360
ccaaatagtt tagataaata tttaccctta tatttggggg gaattcaggc tcaccatttg      420
ccgaggcaag cccatcaaca gtctagaggc atattctgtg tcattccttc ccgtctcctt      480
catagaatac tactttttcc ttttgtctcc tggccattct ccatcatctg ctgattattg      540
ctaaccacag gatgctgggc aaagcttaca gtgataggca catgtgttca gtgatgtcca      600
atacactctt atcacagtgg ttattgcttc ttactctttt caaatgcatt attctacccc      660
tcaacctaca tccaatcatt agaactatac ctgactggag ccagaactt gggaccaata      720
cttaattcaa atagcagggg cttgctcaca aacattaagc ccaaaaagaa gcacagcact      780
ttgaaaagtc aaataggcct ttggtagctc tgtacatttg caattttaca tttgttatta      840
```

gtttatagca ctaataacac ttcagtcgtg aatctacagt ctcaatatga taagtcttag 900
 aacatgttct agaaatagtg gtaccttget gctattatac ttagtaactt ataccccaat 960
 ataataataa gtattaaata cagattgtgt atgcattctt tgtgtgtata tgccaactgt 1020
 actacttaac ctactgatg agcaattaga aaaatacaca aattgtcata gtgaaaataa 1080
 gtcttggcca attcagatga tacgtgaacc tgataaatgc tctaatagat atgctatctt 1140
 gtcctgtatt gcttggttta cagtatgggt catgttggtt gctaagtaaa atgataataa 1200
 taataaagta taccaatttt aaggtagaa ttaaaatttt gcacatatgc ttcttgatat 1260
 tctgaaatgt attctgtggc ttaattatct tttcataca catttcactt ggctttttac 1320
 ccctaggaaa taattgtcca agtatatata tctgtctctt tcttgtaact ttgattaaac 1380
 tgcttacttc aacttacaac attgtaaagc cagaatacct cattttaaca gtgaaaaaaa 1440
 atatgatgac ctgatgtgtt ctcttgattt tgatttgaac tacctaaata ggcttaactg 1500
 taataataaa tatacaattt tggcaggcat tttttccttt gtttgatga acattttgtt 1560
 attggccac ttctaatttt gtcttaaaga gttataaact cagtgtcaat aaaacatctt 1620
 gttatattaa gttattggca aaaaaaacc acaaacaaaa aaacaaaaaa aacctttggg 1680
 attaccaag tggccatata ctatttcctt gtgtttctaa aattgtgttt ctctcgcctt 1740
 caacattttc ccacaaaaat ttcaccaaca aaagt 1775

<210> 76
 <211> 511
 <212> DNA
 <213> Homo sapien

<400> 76
 atgatatata tagcgaatgg cctctaata tctcgagcgc gcatgtgatg gatccggcgc 60
 cggcaggtag tgatctaacc aagatatttt gtttttctca tccaccagtc actttctcag 120
 tcttttctgt atcccttgca aatttgaaca aagctttttt tttttttttt tttttttttt 180
 tttatggcca aaatattttt tttttcccaa aatttattta attccctttt tttctttttt 240
 attggttaaa ataacttttg aaaaaatcgt tcttttgaaa aatatgaggt ccatattttt 300
 acaacggcca cctttgaata tagttccaca gtttgccgc aaaaatatcc tctctttaaa 360
 acaaaggggg gtttcttttg aattgccat atttttatct tgccaaaaaa aagctctgcg 420
 agtatctcct tgtatatata gctgtgttcc tctgtgtgaa tttgtttttc cgtctacaca 480
 tttccacac aatcatcaaa gaaaaggata g 511

66

<210> 77
<211> 646
<212> DNA
<213> Homo sapien

<400> 77
gggattacag gcatgagcca ctgcacccgg ccactttttt tttttaaaga aaaatgctct 60
gcatggattg gagacacagc aataactact gttgccatgg aaggggtaac agtgtaggag 120
ctggtttatc agtccgcttt gacatacagc taaaggaaat ttatgtttgg gggaaaaagg 180
ccctctgttc actttaaaat tcagtgtgga cttatgccaa agggggctgt ttaagttgaa 240
agaagccaag ttaagtttgg cctcttgctt ggaatcactt gaattctgaa atttcactgc 300
gacggacatg tgccttgcca ctttttccat tgcttaatcc tgaagttggg tgcaagtctc 360
tctgcaccta ttaaaaagtg atgtatatac ttccttctta ttctgttgag ttgtatagaa 420
tgggtctttg tatttaacac ttgttaattt tcacaatatt ttttaattta aataaataaa 480
cacttttttc cctcctgcga aaaaaaaaaa aaggctgggc gtatcgtggc aaagctgtgc 540
ctgggtgaat gggttccgct ccatcccatc tcgcagcaaa aaaatgtgtc gaaaccgaag 600
acaaacaaac ggggagagac aaaaagacag aaagacaaat aactaa 646

<210> 78
<211> 493
<212> DNA
<213> Homo sapien

<220>
<221> misc_feature
<222> (264)..(264)
<223> a, c, g or t

<220>
<221> misc_feature
<222> (250)..(250)
<223> a, c, g or t

<220>
<221> misc_feature
<222> (308)..(308)
<223> a, c, g or t

<220>
<221> misc_feature
<222> (311)..(312)
<223> a, c, g or t

<400> 78

67

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ggtgatagtc atatagggcg atgggcctct agatgctgct cgagcggcgc caggtgatgg      60
atcgaggtac tgaataggaa agggaagttt tattggaacc ttctaagagg aaatcaacca      120
ggaccaaaga gccttaaagg acacacagca atgcacggca cttcccttcc ccagctggct      180
gccctaggtg atttctcaag ctccctgggg gactgtgttt ctcatctgga atcaatgtgt      240
gtatgagttt tgtctggtag gatngctgac tctgtccaac agatatcact gtggaattga      300
ataaatnngt nngaaagaac caaaaaaaaa aaaaaaaaaa caaacaaaaa ggcgggggggt      360
aatcctgggg cctaaggcgg gttcccgggg gtggaattgg gtttccccgg ccccaacaatt      420
cccccaacaa ctttcacggg aagcaagttg caacaaaagg caaaagaaaa aagaagaaaa      480
ggaaagagaa aca                                          493

```

<210> 79
 <211> 704
 <212> DNA
 <213> Homo sapien

```

<400> 79
cacttaggag ttattagtc taaaaagggg accgtgcaag gcagcagagt tacatggttc      60
ttcaaatcat gtctgaacct attcttgaa tcttctctat aataaggga gttctcttac      120
cccactgcca catacctctg ttttaaaaga taagtccact aactgtgagt aaaaatgata      180
tatataggca ttaaccacac actttaatgg gtataatttc ctggctgcct cccttctca      240
gccattagg ttaaacacca aagaagact ggtgtgtact gaataggaaa gggaagtttt      300
atgtggaacc ttctaagagg aaatcaacca ggaccaaaga gccttaaagg acacacagca      360
atgcacagcc acttcccttc ccagcttggt ctgccctagg tgatttctca agctccttgg      420
gggactgttg tttctcatct ggaatcaatg tgtgtatgag ttttgtctgg taggattgct      480
gactctgtcc aacagatatc actgtgaatt gaataaattt gttgaaagag aaaaaaaaaa      540
aaaaaaaaaa aaaaaaaaaa aggcgggggg taatcctggg gcctaaggcg gggtcccggg      600
ggtggaattg gggttccccg gccccacaat tcccccaaca actttcacgg gaagcaagtt      660
gcaacaaaag gcaaaagaaa aaagaagaaa aggaaagaga aaca                                          704

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<210> 80
 <211> 455
 <212> DNA
 <213> Homo sapien

```

<400> 80
gatcgatata taggcgactc ggtcctctaa tgctgctcga gcggcgagc tgtgatggat      60
gcgcccgggc aggtcggcga gggaggaaga agcgcggaga gccgttaagt ccatgccggt      120

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gtggtggcgg cggcggagac tgcgggccgt agctgggttc tgcgagcata taggttgctg 180
 tagataatgt tcttagctgt caatgtttaa aaatacttct gcttcgttac ctcaagtgtg 240
 gcatgcagca ttttgaagg aaaattgaag acgtgttcaa gaaaacatga acagaagcaa 300
 atgatgaaaa tgagcatttt acttgatgtt gatacatcac aataaattat ggagaaaaaa 360
 aaaaaaaaaa aaaaaaaagc tttggggtaa ccttggccaa actttttccc tgtgtgaatt 420
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<210> 81
 <211> 1756
 <212> DNA
 <213> Homo sapien

<400> 81
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 tgtaagcagg agggggccat aaatcagggc ctggagttcg gtggcatcaa aagagttaga 180
 gctaagtctg ggtgtcactg cgtaaagcgg aggccctggg gagtggacgc gttttcacgg 240
 aggcatatta agtcgggaaa agacatagaa gcctgtggaa aagcgtaaa gccggtgcac 300
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<210> 82
 <211> 71
 <212> PRT
 <213> Homo sapien

<400> 82

Met Phe Asn Thr Ala Asn Gly Trp Leu Leu Val Asp Asp Ile Ile Ser
 1 5 10 15

His His Gln Met Trp Val Trp Trp Gly Arg Gln Leu His Asp Gly Asp
 20 25 30

Lys Gln Ile Ala Ala Gly Gly Gly Arg Pro Ile Leu Tyr Leu Phe Glu
 35 40 45

Arg Arg Ala Cys Val Val Leu Cys Gly Asn Tyr Leu Arg Leu Leu Ala
 50 55 60

Cys Ser Pro Asn Asn Asn Ile
 65 70

<210> 83
 <211> 16
 <212> PRT
 <213> Homo sapien

<400> 83

Met Ala Phe Cys Thr Gly Lys Leu Thr Leu Lys Gln Thr Leu Ser Ser
 1 5 10 15

70

<210> 84
 <211> 47
 <212> PRT
 <213> Homo sapien

<400> 84

Met Leu Gly Cys Phe Val Arg Ile Ile Val Val Val Ser Ser Leu Ser
 1 5 10 15

Val Leu Arg Cys Gly Leu Gly Trp Val Glu Tyr Leu Gly Gly Arg Ile
 20 25 30

Val Arg Ala Gly Ile Thr Asn Phe His Asn Gln Gly Glu His Gly
 35 40 45

<210> 85
 <211> 181
 <212> PRT
 <213> Homo sapien

<400> 85

Met Val Val Asp Pro Pro Arg Gly Gly Ser Leu Ser Phe Ser Gln Leu
 1 5 10 15

Ser Gln Pro Thr Trp Phe Ser Ser Pro Leu Pro Ser Trp Gly Val Pro
 20 25 30

Arg Ala Pro Gln Ser Val Cys Ser Arg Cys Val Val Gly Lys Cys Val
 35 40 45

Ser Leu Pro Pro His Arg Pro Ser Ser His Pro His Lys His Met Gln
 50 55 60

Gln Arg Gln Glu His Lys Leu Val Pro Thr Gly Arg Pro Gly Arg Asn
 65 70 75 80

Gly Arg Cys Glu Ala Arg Arg Asn His Met Gln Gly Thr Ala Ser Gln
 85 90 95

Ser Pro Thr Arg Ile Ala Ala Ser Asp Arg Thr Asp Glu Gln Arg Ile
 100 105 110

Ala Pro Pro His His Pro Pro Gly Pro Gln Gly Glu Ile Asn Thr Cys
 115 120 125

71

Gly Arg Ala Ala Ser Lys Gly Pro Thr Thr Lys Leu Gly Ala Glu Ser
 130 135 140

Gly Arg Thr Met Thr His Thr Glu Arg Arg Arg Pro Lys Gln His Leu
 145 150 155 160

Ala Thr Asn Ala Gln Arg Pro Arg Leu His Arg His Pro Thr Cys Ile
 165 170 175

Arg Arg Met Ser Asp
 180

<210> 86
 <211> 209
 <212> PRT
 <213> Homo sapien

<400> 86

Met Pro Ser Val Cys Ser Ala Cys Leu Val Gly Ser Cys Arg Ser Gly
 1 5 10 15

Pro Ser Ala Leu Phe Leu Ser Ser Leu Leu Val Leu Val Cys Ser Phe
 20 25 30

Ser Cys Ser Pro Tyr Ser Ala Ala Arg Ala Arg Ala Ala Val Leu Arg
 35 40 45

Leu Ser Leu Arg Leu Val Arg Leu Pro Ala Ala Val Cys Cys Val Leu
 50 55 60

Phe Phe Arg Phe Ser Leu Leu Phe His Ser Leu Cys Trp Leu Leu Val
 65 70 75 80

Ser His Pro Gly Leu Val Ser Ala His Gly Val Ala Cys Ala Phe Leu
 85 90 95

Leu Phe Pro Ala Val Gly Leu Ser Ser Leu Thr Leu Leu Leu Leu Phe
 100 105 110

Ala Val Ala Phe Arg Cys Ser Cys Ser Val Ser Ser Leu Ser Leu His
 115 120 125

Phe Trp Trp Ser Leu Leu Leu Leu Ser Gly Pro Ser Ser Val Phe Cys
 130 135 140

72

Phe Gly Leu Phe Ser Val Val Val Ala Leu Leu Ile Val Gly Cys Val
 145 150 155 160

Leu Arg Leu Ser Leu Trp Leu Ala Leu Leu Val Arg Trp Gly Thr Phe
 165 170 175

Trp Gly Arg Gly Ile Pro Thr Phe Pro His Pro Gly Tyr Thr Leu Gly
 180 185 190

Pro Val Phe Pro His Ala Phe Phe Phe Phe Phe Phe Phe Phe Asn
 195 200 205

Cys

<210> 87
 <211> 29
 <212> PRT
 <213> Homo sapien

<400> 87

Met Arg Lys Trp Lys Ser Tyr Leu Gly Val Ile Thr Pro Asn Val Lys
 1 5 10 15

Pro Glu Arg Gln Arg Tyr Thr His Leu Glu Gly Glu Glu
 20 25

<210> 88
 <211> 78
 <212> PRT
 <213> Homo sapien

<400> 88

Met Arg Val Ser Ala Val Val Cys Glu Lys Met Trp Cys Leu Pro Pro
 1 5 10 15

Arg Ala Thr Asn Ile Ser His Thr Gln Ile Tyr Arg Ala Gln Thr Asn
 20 25 30

Asn Gly Arg Arg Arg Ser Ser Arg Arg Thr Arg Ser Arg Ala Gly Glu
 35 40 45

Glu Lys Pro Gly Gln Thr Gly Asp Thr Gly Ser Asn Arg Arg Gly Val
 50 55 60

Arg Asp Arg Lys Lys Asp Gly Thr Arg Ala Thr Lys Ser Ala

73

65

70

75

<210> 89
<211> 61
<212> PRT
<213> Homo sapien

<400> 89

Met Pro Val Ile Leu Ala Leu Trp Glu Ala Lys Ala Asp Gly Ser Leu
1 5 10 15

Glu Pro Arg Ser Leu Arg Pro Ala Trp Ala Thr Trp Gln Asn Pro Ile
20 25 30

Ser Thr Lys Asn Thr Lys Ser Arg Pro Gly Thr Val Val His Thr Cys
35 40 45

Asn Pro Gly Ile Leu Gly Gly Arg Asp Arg Trp Ile Thr
50 55 60

<210> 90
<211> 42
<212> PRT
<213> Homo sapien

<400> 90

Met Gly Ser Cys Ser Val Ala Gln Val Gly Val Met Trp His Asp Leu
1 5 10 15

Gly Ser Leu Gln Pro Leu Pro Pro Gly Phe Lys Gln Phe Ser Cys Pro
20 25 30

Ser Leu Leu Ser Ser Trp Asp Tyr Arg Arg
35 40

<210> 91
<211> 52
<212> PRT
<213> Homo sapien

<400> 91

Met Leu Pro Ser Ser Gly Val Tyr Ile Ser Ala Leu Leu Leu Tyr Ile
1 5 10 15

Glu Leu Cys Thr Thr Asn Ile His Ser His Cys Val Asn Asn Pro Asn
20 25 30

Ile Thr Lys Gly Phe Arg Pro Gly Gly Glu Trp Ala Phe Phe Arg Ser
 35 40 45

Pro Thr Asn Cys
 50

<210> 92
 <211> 143
 <212> PRT
 <213> Homo sapien

<400> 92

Met Pro Leu Leu Pro Gly Ser Leu Ala Ser Phe Phe Ser Leu Thr Cys
 1 5 10 15

Val Asp Leu Ser Leu Arg Leu Ser Ser Ser Leu Cys Pro Leu Ser Leu
 20 25 30

Pro Pro Cys Pro Pro Pro Ile Pro Val Pro Leu Ala Arg Pro Ser Leu
 35 40 45

Phe Phe Ala Ala Phe Ser Pro Leu Ser Ser Leu Ala Phe Arg Ser Pro
 50 55 60

Leu Ser Ser His Tyr Val Leu Leu Pro Asp Asp Arg Phe Arg Asp Val
 65 70 75 80

Pro Ala Val Pro Arg Thr Ser Thr Pro Pro Phe Ser Thr Ala Ser Arg
 85 90 95

Leu Leu Arg Leu His Pro Thr Ser Lys Leu Arg Pro Tyr His Pro Pro
 100 105 110

Asn Thr Ala Pro Cys Cys Asn Thr Pro Ser His Leu Pro Ala His Ala
 115 120 125

Pro Val Pro Pro Ser Arg His Leu Pro Leu Ser Pro Leu Ala Ser
 130 135 140

<210> 93
 <211> 83
 <212> PRT
 <213> Homo sapien

<400> 93

75

Met Lys Trp Gly Pro Lys Lys Arg Gly Ile Gln Glu Thr Ser Ser His
 1 5 10 15

Thr Glu Arg Ser Pro Phe His Arg Arg Gly Gly Pro Val Gly Pro Pro
 20 25 30

Val Ala Gly Ala Val Val Ser Leu Asn Asn Thr His Pro Ser Arg Thr
 35 40 45

Asn Arg Leu Leu Ser Ile Ile Phe Pro Arg Pro Pro Pro Pro Arg Gly
 50 55 60

Pro Leu Pro Pro Phe Gly Ala Pro Pro Pro Gln Ile Lys Lys Pro Ile
 65 70 75 80

Pro Phe Phe

<210> 94
 <211> 73
 <212> PRT
 <213> Homo sapien

<400> 94

Met Glu Leu Arg Pro Ser Leu Ser Gly Ile Lys Lys Ala Lys Val Pro
 1 5 10 15

Pro Thr Pro Pro Pro Pro Tyr Glu Asn His Gln Ser His His Leu Gly
 20 25 30

Gly Asp Pro Lys His Leu Gly Pro Ile Leu Gln Val Lys Thr Ile Arg
 35 40 45

Arg Asn Val Trp Asp Thr Gln Asn Glu Ile Ala Asn Gly Arg Arg Asp
 50 55 60

Ala Pro Cys Gln Leu Cys Phe Ser Asp
 65 70

<210> 95
 <211> 37
 <212> PRT
 <213> Homo sapien

<400> 95

Met Ser Pro Leu Arg Tyr Leu Thr Arg Phe Gln Phe Ser Gly Gly Pro

76

1 5 10 15

Val Arg Lys Gly Lys Gly Glu Lys Ser Asn Ile Asn Ser Val Leu Ala
20 25 30

Gly Glu Leu Pro Ile
35

<210> 96
<211> 151
<212> PRT
<213> Homo sapien

<400> 96

Met Phe Ser Cys Leu Gly Asn Gly Pro Arg Gly Phe Ala Pro Cys Ile
1 5 10 15

Trp Glu Gly Pro Leu Gly Cys Ser Leu Arg Ser Asp Ser Ala Trp Arg
20 25 30

Leu Val Pro Arg Ser Ser Gly Pro Leu Val Cys Val Phe Phe Val Arg
35 40 45

Ser Asn Gly Val Gln Thr Val Val Pro Val Gly Ile Arg Ala Ser Ile
50 55 60

Ala Val Gly Val Ser Val Ala Leu Tyr Trp Arg Trp Leu Phe Ser Ala
65 70 75 80

Ser Val Leu Glu Cys Val Ile Leu Ala His Val Val Tyr Leu Leu Cys
85 90 95

Pro Pro Leu Asp Arg Ser Leu Phe Cys Phe Glu Arg Met Ser Trp Thr
100 105 110

Ser Leu Cys Phe Leu Val Arg Ala His Ser Asp Val Val Arg Leu Leu
115 120 125

Leu Cys Phe Trp Met Gly Leu Leu Phe Trp Phe Val Gly Leu Met His
130 135 140

Cys Gly Ile Cys Asn Gly Ser
145 150

77

<211> 60
<212> PRT
<213> Homo sapien

<400> 97

Met Ile Thr Thr Arg Glu His Ala Ser Glu Pro Leu Cys Asn Arg Pro
1 5 10 15

Arg Phe Thr Gly Ser Tyr Leu Gly Glu Ser Gly Leu Ser Arg Gly Ala
20 25 30

Leu Leu Val Val Thr Pro Gln Val Thr Met Leu Glu Leu Trp Ser Pro
35 40 45

His Tyr Ile Trp Cys Ser Ile Lys Tyr Gly Gly Leu
50 55 60

<210> 98
<211> 59
<212> PRT
<213> Homo sapien

<400> 98

Met Trp Arg Arg Gly Ser Arg Ile Glu Arg Ile Asn Thr Ala Met Ile
1 5 10 15

Arg Leu Ile Thr Arg Val Cys Leu Ser Asp Phe Met Leu Phe Ala Cys
20 25 30

Leu Val Thr Tyr Gln Phe Arg Arg Asn Gly Met Thr His Ala Leu Leu
35 40 45

Ser Ser His His Ser Ile Arg Leu Thr His Ala
50 55

<210> 99
<211> 133
<212> PRT
<213> Homo sapien

<400> 99

Met Cys Asp Trp Glu Asn Ala Ser Gly Arg Ser Lys Cys Asp Arg Pro
1 5 10 15

Thr Ser Leu Arg Gln Leu Pro Ala Arg Arg Arg Ile Leu Ala Arg Thr
20 25 30

Val Pro Pro Gly Thr Met Ser His His Ala Phe Pro Thr Pro Leu Pro
 35 40 45

His Phe His His His Ala His Arg Ala Ala Thr Gly Asp His Thr Trp
 50 55 60

Arg Thr Trp Pro Tyr Phe Phe Cys Ile Glu Trp Glu Gln Arg Leu Leu
 65 70 75 80

Leu Ser Pro Leu Gln Asp Phe Leu Arg Ala Ala Phe Asp Cys Ser Ser
 85 90 95

Phe Val Arg Cys Gly Val His Gln Pro Thr Ala Val Arg Gln Met Ser
 100 105 110

Arg Ala Pro Gly His Gly Thr Arg Arg Pro Pro Cys Ala Arg Val Pro
 115 120 125

Arg Pro Arg Pro Arg
 130

<210> 100
 <211> 22
 <212> PRT
 <213> Homo sapien

<400> 100

Met Gln Asp Gln Ala Arg Thr Asn Lys Glu Gln Gln Thr Arg Thr Lys
 1 5 10 15

Arg Ser Glu Gln Ala Ser
 20

<210> 101
 <211> 52
 <212> PRT
 <213> Homo sapien

<400> 101

Met Phe Tyr Ile Lys Ser Met Leu Leu Leu Asp Glu Lys Asn Leu Lys
 1 5 10 15

Lys Gln Lys Lys Lys Lys Lys Lys Lys Arg Leu Gly Glu Leu Gly
 20 25 30

79

Lys Gly Ala Pro Gly Gly Ile Gly Tyr Arg Ser Lys Ser Thr Lys Asn
 35 40 45

Arg Arg Lys Val
 50

<210> 102
 <211> 80
 <212> PRT
 <213> Homo sapien

<400> 102

Met Phe Cys Gly Gly Val Cys Leu Ala Thr Pro Ser Arg Leu Trp Ile
 1 5 10 15

Leu Pro Pro Thr Ser Ser Pro Ser Leu Leu Ser His Leu Gly Gly Gly
 20 25 30

Asp Ser Leu Ser Leu Val Trp Cys Val Met Pro Arg Leu Phe Cys Leu
 35 40 45

Ala Val His Thr Asp Ile Leu Arg Arg Arg Cys Phe Tyr Gly Gly Gly
 50 55 60

Arg Pro Thr Val Leu Leu Thr Pro Pro Leu Met Tyr Pro Ala Ala Asp
 65 70 75 80

<210> 103
 <211> 120
 <212> PRT
 <213> Homo sapien

<400> 103

Met Leu His Gln Phe Phe Val Ser Ala Lys Ile Phe Phe Val Trp Arg
 1 5 10 15

Ile Leu Cys Gly Arg Gly Gly Tyr Thr His Phe Phe His Thr His Gly
 20 25 30

Gly Arg Thr His Ser Phe Cys Val Pro Ser Glu Val Tyr Arg Pro Pro
 35 40 45

Arg Thr Phe Leu Phe Val Arg Tyr Thr Arg Glu Ile Leu Tyr Val Cys
 50 55 60

Ser Leu Phe Ser His His Gly Ala Pro Gln Gly Glu Thr His Ser Trp

80

65

70

75

80

Cys Leu His Ser Val Ser Ala Leu Ser Ser Cys Ser Arg Glu Lys Ser
85 90 95

Arg Arg His Pro Thr Thr Arg Glu Trp Trp Leu His Ala Ile Glu Cys
100 105 110

Val Phe Gln Ser Glu Ile Phe Leu
115 120

<210> 104
<211> 28
<212> PRT
<213> Homo sapien

<400> 104

Met Arg Glu Ala Glu Ser Gly Phe Lys Gln Ile Gly Val Arg Gln Ala
1 5 10 15

Thr Leu Tyr Phe Ser Val Leu Ala Tyr Gln Cys Cys
20 25

<210> 105
<211> 150
<212> PRT
<213> Homo sapien

<400> 105

Met Ser Gly Glu Leu Ser Asn Arg Phe Gln Gly Gly Lys Ala Phe Gly
1 5 10 15

Leu Leu Lys Ala Arg Gln Glu Arg Arg Leu Ala Glu Ile Asn Arg Glu
20 25 30

Phe Leu Cys Asp Gln Lys Tyr Ser Asp Glu Glu Asn Leu Pro Glu Lys
35 40 45

Leu Thr Ala Phe Lys Glu Lys Tyr Met Glu Phe Asp Leu Asn Asn Glu
50 55 60

Gly Glu Ile Asp Leu Met Ser Leu Lys Arg Met Met Glu Lys Leu Gly
65 70 75 80

Val Pro Lys Thr His Leu Glu Met Lys Lys Met Ile Ser Glu Val Thr
85 90 95

Gly Gly Val Ser Asp Thr Ile Ser Tyr Arg Asp Phe Val Asn Met Met
 100 105 110

Leu Gly Lys Arg Ser Ala Val Leu Lys Leu Val Met Met Phe Glu Gly
 115 120 125

Lys Ala Asn Glu Ser Ser Pro Lys Pro Val Gly Pro Pro Pro Glu Arg
 130 135 140

Asp Ile Ala Ser Leu Pro
 145 150

<210> 106
 <211> 61
 <212> PRT
 <213> Homo sapien

<400> 106

Met Ser Lys Ser Leu Ile Ser Gln Lys Arg Leu Lys Ile Tyr Cys Asp
 1 5 10 15

Ser Met Thr Ser Tyr Pro Lys Asp Lys Asn Val His Lys Ile Ser His
 20 25 30

Ser Leu Asn Ile Cys Cys Tyr Phe His Ser Lys Met Ile Lys Ile Asn
 35 40 45

Phe Ile Leu Pro Pro Val Gln Lys Tyr Leu Lys His Lys
 50 55 60

<210> 107
 <211> 32
 <212> PRT
 <213> Homo sapien

<400> 107

Met Gly Ser Asp Trp Gln Lys Leu Ile Ser Ser Gln Trp Glu Pro Thr
 1 5 10 15

Glu Leu Ser Arg Val Pro Arg Lys Lys Thr Gly Ala Ile Ser Gln Ser
 20 25 30

<210> 108
 <211> 638
 <212> PRT

<213> Homo sapien

<400> 108

Met Pro Leu Pro Leu Leu Pro Met Asp Leu Lys Gly Glu Pro Gly Pro
 1 5 10 15

Pro Gly Lys Pro Gly Pro Arg Gly Pro Pro Gly Pro Pro Gly Phe Pro
 20 25 30

Gly Lys Pro Gly Met Gly Lys Pro Gly Leu His Gly Gln Pro Gly Pro
 35 40 45

Ala Gly Pro Pro Gly Phe Ser Arg Met Gly Lys Ala Gly Pro Pro Gly
 50 55 60

Leu Pro Gly Lys Val Gly Pro Pro Gly Gln Pro Gly Leu Arg Gly Glu
 65 70 75 80

Pro Gly Ile Arg Gly Asp Gln Gly Leu Arg Gly Pro Pro Gly Pro Pro
 85 90 95

Gly Leu Pro Gly Pro Ser Gly Ile Thr Ile Pro Gly Lys Pro Gly Ala
 100 105 110

Gln Gly Val Pro Gly Pro Pro Gly Phe Gln Gly Glu Pro Gly Pro Gln
 115 120 125

Gly Glu Pro Gly Pro Pro Gly Asp Arg Gly Leu Lys Gly Asp Asn Gly
 130 135 140

Val Gly Gln Pro Gly Leu Pro Gly Ala Pro Gly Gln Gly Gly Ala Pro
 145 150 155 160

Gly Pro Pro Gly Leu Pro Gly Pro Ala Gly Leu Gly Lys Pro Gly Leu
 165 170 175

Asp Gly Leu Pro Gly Ala Pro Gly Asp Lys Gly Glu Ser Gly Pro Pro
 180 185 190

Gly Val Pro Gly Pro Arg Gly Glu Pro Gly Ala Val Gly Pro Lys Gly
 195 200 205

Pro Pro Gly Val Asp Gly Val Gly Val Pro Gly Ala Ala Gly Leu Pro
 210 215 220

Gly Pro Gln Gly Pro Ser Gly Ala Lys Gly Glu Pro Gly Thr Arg Gly
225 230 235 240

Pro Pro Gly Leu Ile Gly Pro Thr Gly Tyr Gly Met Pro Gly Leu Pro
245 250 255

Gly Pro Lys Gly Asp Arg Gly Pro Ala Gly Val Pro Gly Leu Leu Gly
260 265 270

Asp Arg Gly Glu Pro Gly Glu Asp Gly Asp Pro Gly Glu Gln Gly Pro
275 280 285

Gln Gly Leu Gly Gly Pro Pro Gly Leu Pro Gly Ser Ala Gly Leu Pro
290 295 300

Gly Arg Arg Gly Pro Pro Gly Pro Lys Gly Glu Ala Gly Pro Gly Gly
305 310 315 320

Pro Pro Gly Val Pro Gly Ile Arg Gly Asp Gln Gly Pro Ser Gly Leu
325 330 335

Ala Gly Lys Pro Gly Val Pro Gly Glu Arg Gly Leu Pro Gly Ala His
340 345 350

Gly Pro Pro Gly Pro Thr Gly Pro Lys Gly Glu Pro Gly Phe Thr Gly
355 360 365

Arg Pro Gly Gly Pro Gly Val Ala Gly Ala Leu Gly Gln Lys Gly Asp
370 375 380

Leu Gly Leu Pro Gly Gln Pro Gly Leu Arg Gly Pro Ser Gly Ile Pro
385 390 395 400

Gly Leu Gln Gly Pro Ala Gly Pro Ile Gly Pro Gln Gly Leu Pro Gly
405 410 415

Leu Lys Gly Glu Pro Gly Leu Pro Gly Pro Pro Gly Glu Gly Arg Ala
420 425 430

Gly Glu Pro Gly Thr Ala Gly Pro Thr Gly Pro Pro Gly Val Pro Gly
435 440 445

Ser Pro Gly Ile Thr Gly Pro Pro Gly Pro Pro Gly Pro Pro Gly Pro
450 455 460

Pro Gly Ala Pro Gly Ala Phe Asp Glu Thr Gly Ile Ala Gly Leu His
465 470 475 480

Leu Pro Asn Gly Gly Val Glu Gly Ala Val Leu Gly Lys Gly Gly Lys
485 490 495

Pro Gln Phe Gly Leu Gly Glu Leu Ser Ala His Ala Thr Pro Ala Phe
500 505 510

Thr Ala Val Leu Thr Ser Pro Phe Pro Ala Ser Gly Met Pro Val Lys
515 520 525

Phe Asp Arg Thr Leu Tyr Asn Gly His Ser Gly Tyr Asn Pro Ala Thr
530 535 540

Gly Ile Phe Thr Cys Pro Val Gly Gly Val Tyr Tyr Phe Ala Tyr His
545 550 555 560

Val His Val Lys Gly Thr Asn Val Trp Val Ala Leu Tyr Lys Asn Asn
565 570 575

Val Pro Ala Thr Tyr Thr Tyr Asp Glu Tyr Lys Lys Gly Tyr Leu Asp
580 585 590

Gln Ala Ser Gly Gly Ala Val Leu Gln Leu Arg Pro Asn Asp Gln Val
595 600 605

Trp Val Gln Met Pro Ser Asp Gln Ala Asn Gly Leu Tyr Ser Thr Glu
610 615 620

Tyr Ile His Ser Ser Phe Ser Gly Phe Leu Leu Cys Pro Thr
625 630 635

<210> 109
<211> 78
<212> PRT
<213> Homo sapien

<400> 109

Met Thr Ser Leu Leu Ser Leu Ile Pro Asn Met Gln Val Phe Asn Cys
1 5 10 15

Leu Met Arg Val Glu Trp Ser Tyr Val Ser Leu Leu Phe Gly Leu Thr
20 25 30

Lys Ile Asn His Asn Phe Gln Gly Ile Phe Met Gly Cys Asp Trp Lys
 35 40 45

Leu Thr Leu Val Leu Arg Leu Ile Leu Tyr Asp Val Glu Lys Ser Ser
 50 55 60

Asn Phe Ser Glu Leu Phe Leu Ile Ser Asn Thr Val Ile Thr
 65 70 75

<210> 110
 <211> 19
 <212> PRT
 <213> Homo sapien

<400> 110

Met Gly Arg Glu Arg Met Leu Ile Phe Lys Phe Leu Ser Leu Val Lys
 1 5 10 15

Phe Cys Ile

<210> 111
 <211> 36
 <212> PRT
 <213> Homo sapien

<400> 111

Met Thr Lys Ser His Lys Lys Ser Thr Arg Ser Pro Leu Cys Ala Trp
 1 5 10 15

Leu Leu Phe Lys Lys Lys Lys Asn Pro Val Tyr Leu Trp Thr His Ser
 20 25 30

Met Arg Thr Met
 35

<210> 112
 <211> 36
 <212> PRT
 <213> Homo sapien

<400> 112

Met Gln Met Pro Asn Asn Pro Cys Met Ala Asn Met Phe Thr Leu Ser
 1 5 10 15

86

Leu Met Asn Thr Met Arg Thr Val Ser Cys Thr Val His Arg His Ser
 20 25 30

Pro Ser His Asp
 35

<210> 113
 <211> 66
 <212> PRT
 <213> Homo sapien

<400> 113

Met Trp Val Thr Met Gln Met Phe Met Asn Asn Phe Thr Glu Val Ile
 1 5 10 15

Pro Ser Val Phe Cys Ser Asn Thr Trp Arg Met Thr Phe Ile Phe Ile
 20 25 30

Tyr Phe Ile Ser Leu Phe Gln Leu Ser Ser Asp Asn Ser Gly Asn Val
 35 40 45

Ser Phe Phe Phe Phe Phe Thr Lys Thr Phe Tyr Cys Val Thr Cys Cys
 50 55 60

Ile Met
 65

<210> 114
 <211> 101
 <212> PRT
 <213> Homo sapien

<400> 114

Leu Phe Tyr Leu Arg Arg Gly Phe Ala Leu Ser Pro Ser Leu Asp Phe
 1 5 10 15

Ser Gly Thr Ile Leu Ala Tyr Cys Asn Leu His Leu Leu Gly Ala Asn
 20 25 30

Asn Pro Pro Thr Ser Val Ser Ala Val Ala Gly Thr Thr Gly Thr Cys
 35 40 45

His His Ala Gln Leu Ile Phe Ile Phe Leu Leu Glu Thr Glu Phe His
 50 55 60

Tyr Val Ala Gln Val Gly Leu Lys Ile Pro Ser Ser Ser Asp Val Pro

87

65

70

75

80

Thr Leu Ala Ser Gln Ser Ala Arg Thr Thr Gly Met Ser His Cys Ala
85 90 95

Gln Pro Ser Phe Phe
100

<210> 115
<211> 48
<212> PRT
<213> Homo sapien

<400> 115

Met Asn His Leu Ile Ile Lys Tyr Leu Ala Asp Phe Gly Arg Gly Leu
1 5 10 15

Val Val Asp Asp Leu Thr Ser Ile Asn His Leu Ala Ala Pro Arg Ile
20 25 30

His His Thr Ala Pro Leu Glu His Asp Leu Glu Ala His Ser Pro Ile
35 40 45

<210> 116
<211> 53
<212> PRT
<213> Homo sapien

<400> 116

Met Asn Thr Ser Ser Arg Leu Val Ser Ile Ser Lys Arg Thr Ser Arg
1 5 10 15

Asn Ala Ser Ala Ala Val Cys Ala Trp Glu Ser Gln Arg Gly Asn Leu
20 25 30

Pro Ser Pro Pro Ser Arg Ala Gly Gly Glu Gln Glu Asp Thr Leu Pro
35 40 45

His Leu Gly Arg Asp
50

<210> 117
<211> 41
<212> PRT
<213> Homo sapien

<400> 117

88

Met Asp Leu Ile Gln Ser Thr Ser Phe Cys Tyr Asn Ser Tyr Ile His
 1 5 10 15

Thr Tyr Leu Ser Lys Leu Thr Leu Val His Arg His His Phe Thr Gly
 20 25 30

Pro Ser Ser Thr Leu Cys Val Ile His
 35 40

<210> 118
 <211> 88
 <212> PRT
 <213> Homo sapien

<400> 118

Met Cys Ile Asn Leu Asn Asn Thr Gln Lys Asn Tyr Asn Leu Lys Ile
 1 5 10 15

Ala Val Phe Asn Met Arg Ile Ile Tyr Val Cys Lys Tyr Ser Thr Lys
 20 25 30

Lys Asn Gln Lys Cys Gly Ile Ile Leu Gln Glu Lys Ile Phe Lys Met
 35 40 45

Glu Ser Pro Phe Met Asn Val Leu Ile Leu Lys Ser Lys Val Met Phe
 50 55 60

Phe Tyr Asn Val Tyr Ile Ile Met Phe Thr Lys Ala Ile Lys Ser Phe
 65 70 75 80

Gln Lys Val Leu Ile Leu Gln Ile
 85

<210> 119
 <211> 25
 <212> PRT
 <213> Homo sapien

<400> 119

Met Thr Thr Cys Phe Thr Trp Ser Tyr Phe Ala Ile Trp Thr Ile Leu
 1 5 10 15

Leu Ser Glu Leu Ile Leu His Thr Cys
 20 25

89

<210> 120
 <211> 109
 <212> PRT
 <213> Homo sapien

<400> 120

Cys Phe Tyr Asp Leu Leu Gly Arg Pro Gly Pro Met Leu Ser Ala Gly
 1 5 10 15

Leu Ile Phe Leu Phe Leu Phe Glu Thr Glu Ser Arg Ser Pro Ser Arg
 20 25 30

Leu Lys Cys Ser Gly Val Ile Ser Ala His Cys Asn Leu Cys Leu Pro
 35 40 45

Gly Ser His Glu Ser Ser Ala Ser Ala Ser Ala Val Ala Gly Thr Thr
 50 55 60

Gly Thr Cys His His Thr Gln Leu Ile Phe Val Phe Leu Val Glu Thr
 65 70 75 80

Gly Phe His His Val Gly Gln Asp Gly Leu Glu Pro Leu Thr Gln Val
 85 90 95

Ile Ser Pro Pro Gln Leu Pro Lys Val Leu Gly Leu Gln
 100 105

<210> 121
 <211> 66
 <212> PRT
 <213> Homo sapien

<400> 121

Met Ser Asn Val Ile Ile Met Leu Arg Thr Ser Arg Ser Phe Ser Ile
 1 5 10 15

Leu Thr Gly Phe Ile His Ile Leu Leu Leu Tyr Ser Asn Ile Ala Leu
 20 25 30

Lys Val Leu Thr Val Ser Val Ala Lys Ser Ile Ile Ser Trp Thr Ile
 35 40 45

Leu Asn Gly Met Phe Thr Arg Pro Lys Met Lys Val Leu Lys Ser Tyr
 50 55 60

Leu Phe

90

65

<210> 122
 <211> 41
 <212> PRT
 <213> Homo sapien

<400> 122

Met Pro Leu Leu Phe Lys Asn Cys Ala Val Ile Thr Val Leu Ile Leu
 1 5 10 15

Val Tyr Leu Gly Ile Tyr Pro Ser Val Val Phe Ile Leu Ile Leu Ser
 20 25 30

Ile Thr Leu Arg Arg Ser Ser Ser Ile
 35 40

<210> 123
 <211> 28
 <212> PRT
 <213> Homo sapien

<400> 123

Met Ser Ser Val Lys Asn Ser Lys Leu Leu Val Leu Pro Ile Pro Asn
 1 5 10 15

Pro Tyr Leu Thr Gln Leu Ser Lys Met Phe Thr Ser
 20 25

<210> 124
 <211> 58
 <212> PRT
 <213> Homo sapien

<400> 124

Met Leu Gly Asn Leu Gly Gly Lys Pro Asn Phe Pro Pro Gly Pro Val
 1 5 10 15

Leu Ala Pro Gly Ser Pro Arg Leu Phe Leu Leu Leu Cys Val Gly Val
 20 25 30

Phe Phe Val Ser Lys Thr Leu Asp Asn Leu Phe Gln Ile Tyr Ser Lys
 35 40 45

Ile Leu Lys His Cys Ile Asn Ile Lys Val
 50 55

<210> 125
 <211> 98
 <212> PRT
 <213> Homo sapien

<400> 125

Phe Leu Phe Leu Arg Gln Ser Phe Ala Leu Ala Thr Gln Ala Gly Val
 1 5 10 15

Arg Trp Cys Asp Leu Gly Ser Pro Gln Pro Pro Pro Pro Gly Leu Lys
 20 25 30

Arg Leu Ser Cys Leu Ser Pro Pro Ser Arg Trp Asp Tyr Arg Pro Gly
 35 40 45

Pro Pro His Pro Ala Asn Phe Ala Leu Pro Val Glu Met Gly Ser Leu
 50 55 60

His Val Gly Gln Ala Gly Leu Gln Pro Leu Thr Ser Ser Asp Pro Pro
 65 70 75 80

Ala Pro Ala Ser Gln Ser Ala Gly Thr Thr Asp Val Ser His Trp Thr
 85 90 95

Arg Pro

<210> 126
 <211> 45
 <212> PRT
 <213> Homo sapien

<400> 126

Met Lys Ile Cys Leu Lys Phe Asn Trp Asn His Gly Ile Ser His Gln
 1 5 10 15

Phe Glu Leu Ser Asn Met Pro Asn Leu Asp Ile Leu Ile Leu Glu Asn
 20 25 30

Gln Phe Leu Lys Ile Leu Lys Cys Ser Val Phe Arg Thr
 35 40 45

<210> 127
 <211> 1088
 <212> PRT
 <213> Homo sapien

<400> 127

Asp Asp Ser Leu Ile Ser Ser Ala Thr Ala Ile Met Glu Ala Val Val
 1 5 10 15

Arg Glu Trp Ile Leu Leu Glu Lys Gly Ser Ile Glu Ser Leu Arg Thr
 20 25 30

Phe Leu Leu Thr Tyr Val Leu Gln Arg Pro Asn Leu Gln Lys Tyr Val
 35 40 45

Arg Glu Gln Ile Leu Leu Ala Val Ala Val Ile Val Lys Arg Gly Ser
 50 55 60

Leu Asp Lys Ser Ile Asp Cys Lys Ser Ile Phe His Glu Val Ser Gln
 65 70 75 80

Leu Ile Ser Ser Gly Asn Pro Thr Val Gln Thr Leu Ala Cys Ser Ile
 85 90 95

Leu Thr Ala Leu Leu Ser Glu Phe Ser Ser Ser Ser Lys Thr Ser Asn
 100 105 110

Ile Gly Leu Ser Met Glu Phe His Gly Asn Cys Lys Arg Val Phe Gln
 115 120 125

Glu Glu Asp Leu Arg Gln Ile Phe Met Leu Thr Val Glu Val Leu Gln
 130 135 140

Glu Phe Ser Arg Arg Glu Asn Leu Asn Ala Gln Met Ser Ser Val Phe
 145 150 155 160

Gln Arg Tyr Leu Ala Leu Ala Asn Gln Val Leu Ser Trp Asn Phe Leu
 165 170 175

Pro Pro Asn Leu Gly Arg His Tyr Ile Ala Met Phe Glu Ser Ser Gln
 180 185 190

Asn Val Leu Leu Lys Pro Thr Glu Ser Leu Arg Glu Thr Leu Leu Asp
 195 200 205

Ser Arg Val Met Glu Leu Phe Phe Thr Val His Arg Lys Ile Arg Glu
 210 215 220

93

His Ser Asp Met Ala Gln Asp Ser Leu Gln Cys Leu Ala Gln Leu Ala
 225 230 235 240

Ser Leu His Gly Pro Ile Phe Pro Asp Glu Gly Ser Gln Val Asp Tyr
 245 250 255

Leu Ala His Phe Ile Glu Gly Leu Leu Asn Thr Ile Asn Gly Ile Glu
 260 265 270

Ile Glu Asp Ser Glu Ala Val Gly Ile Ser Ser Ile Ile Ser Asn Leu
 275 280 285

Ile Thr Val Phe Pro Arg Asn Val Leu Thr Ala Ile Pro Ser Glu Leu
 290 295 300

Phe Ser Ser Phe Val Asn Cys Leu Thr His Leu Thr Cys Ser Phe Gly
 305 310 315 320

Arg Ser Ala Ala Leu Glu Glu Val Leu Asp Lys Asp Asp Met Val Tyr
 325 330 335

Met Glu Ala Tyr Asp Lys Leu Leu Glu Ser Trp Leu Thr Leu Val Gln
 340 345 350

Asp Asp Lys His Phe His Lys Gly Phe Phe Thr Gln His Ala Val Gln
 355 360 365

Val Phe Asn Ser Tyr Ile Gln Cys His Leu Ala Ala Pro Asp Gly Thr
 370 375 380

Arg Asn Leu Thr Ala Asn Gly Val Ala Ser Arg Glu Glu Glu Glu Ile
 385 390 395 400

Ser Glu Leu Gln Glu Asp Asp Arg Asp Gln Phe Ser Asp Gln Leu Ala
 405 410 415

Ser Val Gly Met Leu Gly Arg Ile Ala Ala Glu His Cys Ile Pro Leu
 420 425 430

Leu Thr Ser Leu Leu Glu Glu Arg Val Thr Arg Leu His Gly Gln Leu
 435 440 445

Gln Arg His Gln Gln Gln Leu Leu Ala Ser Pro Gly Ser Ser Thr Val
 450 455 460

Asp Asn Lys Met Leu Asp Asp Leu Tyr Glu Asp Ile His Trp Leu Ile
 465 470 475 480

Leu Val Thr Gly Tyr Leu Leu Ala Asp Asp Thr Gln Gly Glu Thr Pro
 485 490 495

Leu Ile Pro Pro Glu Ile Met Glu Tyr Ser Ile Lys His Ser Ser Glu
 500 505 510

Val Asp Ile Asn Thr Thr Leu Gln Ile Leu Gly Ser Pro Gly Glu Lys
 515 520 525

Ala Ser Ser Ile Pro Gly Tyr Asn Arg Thr Asp Ser Val Ile Arg Leu
 530 535 540

Leu Ser Ala Ile Leu Arg Val Ser Glu Val Glu Ser Arg Ala Ile Arg
 545 550 555 560

Ala Asp Leu Thr His Leu Leu Ser Pro Gln Met Gly Lys Asp Ile Val
 565 570 575

Trp Phe Leu Lys Arg Trp Ala Lys Thr Tyr Leu Leu Val Asp Glu Lys
 580 585 590

Leu Tyr Asp Gln Ile Ser Leu Pro Phe Ser Thr Ala Phe Gly Ala Asp
 595 600 605

Thr Glu Gly Ser Gln Trp Ile Ile Gly Tyr Leu Leu Gln Lys Val Ile
 610 615 620

Ser Asn Leu Ser Val Trp Ser Ser Glu Gln Asp Leu Ala Asn Asp Thr
 625 630 635 640

Val Gln Leu Leu Val Thr Leu Val Glu Arg Arg Glu Arg Ala Asn Leu
 645 650 655

Val Ile Gln Cys Glu Asn Trp Trp Asn Leu Ala Lys Gln Phe Ala Ser
 660 665 670

Arg Ser Pro Pro Leu Asn Phe Leu Ser Ser Pro Val Gln Arg Thr Leu
 675 680 685

Met Lys Ala Leu Val Leu Gly Gly Phe Ala His Met Asp Thr Glu Thr
 690 695 700

Lys Gln Gln Tyr Trp Thr Glu Val Leu Gln Pro Leu Gln Gln Arg Phe
705 710 715 720

Leu Arg Val Ile Asn Gln Glu Asn Phe Gln Gln Met Cys Gln Gln Glu
725 730 735

Glu Val Lys Gln Glu Ile Thr Ala Thr Leu Glu Ala Leu Cys Gly Ile
740 745 750

Ala Glu Ala Thr Gln Ile Asp Asn Val Ala Ile Leu Phe Asn Phe Leu
755 760 765

Met Asp Phe Leu Thr Asn Cys Ile Gly Leu Met Glu Val Tyr Lys Asn
770 775 780

Thr Pro Glu Thr Val Asn Leu Ile Ile Glu Val Phe Val Glu Val Ala
785 790 795 800

His Lys Gln Ile Cys Tyr Leu Gly Glu Ser Lys Ala Met Asn Leu Tyr
805 810 815

Glu Ala Cys Leu Thr Leu Leu Gln Val Tyr Ser Lys Asn Asn Leu Gly
820 825 830

Arg Gln Arg Ile Asp Val Thr Ala Glu Glu Glu Gln Tyr Gln Asp Leu
835 840 845

Leu Leu Ile Met Glu Leu Leu Thr Asn Leu Leu Ser Lys Glu Phe Ile
850 855 860

Asp Phe Ser Asp Thr Asp Glu Val Phe Arg Gly His Glu Pro Gly Gln
865 870 875 880

Ala Ala Asn Arg Ser Val Ser Ala Ala Asp Val Val Leu Tyr Gly Val
885 890 895

Asn Leu Ile Leu Pro Leu Met Ser Gln Asp Leu Leu Lys Phe Pro Thr
900 905 910

Leu Cys Asn Gln Tyr Tyr Lys Leu Ile Thr Phe Ile Cys Glu Ile Phe
915 920 925

Pro Glu Lys Ile Pro Gln Leu Pro Glu Asp Leu Phe Lys Ser Leu Met

96

930

935

940

Tyr Ser Leu Glu Leu Gly Met Thr Ser Met Ser Ser Glu Val Cys Gln
 945 950 955 960

Leu Cys Leu Glu Ala Leu Thr Pro Leu Ala Glu Gln Cys Ala Lys Ala
 965 970 975

Gln Glu Thr Asp Ser Pro Leu Phe Leu Ala Thr Arg His Phe Leu Lys
 980 985 990

Leu Val Phe Asp Met Leu Val Leu Gln Lys His Asn Thr Glu Met Thr
 995 1000 1005

Thr Ala Ala Gly Glu Ala Phe Tyr Thr Leu Val Cys Leu His Gln
 1010 1015 1020

Ala Glu Tyr Ser Glu Leu Val Glu Thr Leu Leu Ser Ser Gln Gln
 1025 1030 1035

Asp Pro Val Ile Tyr Gln Arg Leu Ala Asp Ala Phe Asn Lys Leu
 1040 1045 1050

Thr Ala Ser Ser Thr Pro Pro Thr Leu Asp Arg Lys Gln Lys Met
 1055 1060 1065

Ala Phe Leu Lys Ser Leu Glu Glu Phe Met Ala Asn Val Gly Gly
 1070 1075 1080

Leu Leu Cys Val Lys
 1085

<210> 128

<211> 33

<212> PRT

<213> Homo sapien

<400> 128

Met Glu Lys Tyr Phe Ser Gly Cys Arg Leu Glu Phe Asp Tyr Gln Ile
 1 5 10 15

Asp Phe Cys Glu Leu His Phe Asn Ser Val Gln Asn Phe Leu Thr Ala
 20 25 30

Leu

<210> 129
 <211> 154
 <212> PRT
 <213> Homo sapien

<400> 129

Met Val Ile Leu Ser Phe Lys His Gly Gly Ile Val Ala Tyr Arg Met
 1 5 10 15

Ser Glu Pro Tyr Ala Ser Leu Leu Asp Ile Tyr Ile Gly Ser His Phe
 20 25 30

Ser Cys Ile Ile Tyr Trp Asp Val Phe Pro Ala Phe Ser Val Pro Ile
 35 40 45

Asn Asn Thr Gln Asn Thr His Thr Pro Asn Pro Gly Ala Glu Asn Thr
 50 55 60

Gly Ala Pro Thr Cys Pro Pro Gly Gly Asp Thr Val Arg Ser Pro Arg
 65 70 75 80

Leu Gln Asn Ser Pro Gln His Asn Tyr Arg Arg Arg Asn Arg Ala Thr
 85 90 95

Glu Tyr Arg His Arg Ala Thr Arg Asp Asp Phe Thr Pro Arg Pro Tyr
 100 105 110

Asp Ala His Gly Asn Thr Lys Thr Arg Arg Gly Asn His Ile Arg Thr
 115 120 125

Arg Glu Asn Gly Arg Trp Arg Pro Arg Ala Lys Pro Thr Lys Ser Thr
 130 135 140

Thr His Arg Thr Thr His Asn Ala Arg Pro
 145 150

<210> 130
 <211> 37
 <212> PRT
 <213> Homo sapien

<400> 130

Met Phe Arg Leu Leu Leu Leu Asn Met Lys Pro Pro Cys Trp Leu
 1 5 10 15

Asp Arg Ile Asn Phe Ile His Val Met Glu Asn Ser Ile Leu Gln Ile
 20 25 30

Trp Ser Pro Ile Ile
 35

<210> 131
 <211> 72
 <212> PRT
 <213> Homo sapien

<400> 131

Met Ile Ser Trp Lys Ser Ile Leu His Pro Gly Arg Tyr Met Leu Ile
 1 5 10 15

Tyr Met Gly Val Lys Tyr His Glu Val Ser Thr Phe Ser Gln Lys Gln
 20 25 30

Arg Lys Glu Lys Glu Ile Tyr Ser His Pro Thr His Ile His Arg Tyr
 35 40 45

Gly Lys Tyr His Gln Ala Leu Thr Leu Val Asn Leu Gly Glu Gly Tyr
 50 55 60

Met Gly Phe Gln Cys Thr Ser Ala
 65 70

<210> 132
 <211> 43
 <212> PRT
 <213> Homo sapien

<400> 132

Met Pro Ser Phe Ser Pro Arg Gly Pro Leu Trp Pro Cys Val Pro Pro
 1 5 10 15

Ala Phe Phe Phe Val Phe Cys Phe Phe Cys Cys Arg Ile His Gln Glu
 20 25 30

Lys Leu Leu Met Val Arg Arg Glu Thr Trp Leu
 35 40

<210> 133
 <211> 61
 <212> PRT

99

<213> Homo sapien

<400> 133

Met Asp Pro Pro Gly Gln Val Leu Phe Ile His Ile Ser Leu Gly Phe
 1 5 10 15

Leu Pro Leu Gly Asn Asn Cys Pro Ser Ile Tyr Leu Val Phe Phe Leu
 20 25 30

Val Thr Leu Ile Lys Leu Leu Thr Ser Thr Tyr Asn Ile Val Lys Pro
 35 40 45

Glu Tyr Leu Ile Leu Thr Val Lys Lys Asn Met Met Thr
 50 55 60

<210> 134

<211> 75

<212> PRT

<213> Homo sapien

<400> 134

Met Arg Ser Ile Phe Leu Gln Arg Pro Pro Leu Asn Ile Val Pro Gln
 1 5 10 15

Phe Ala Ala Lys Asn Ile Leu Ser Leu Lys Gln Arg Gly Val Ser Leu
 20 25 30

Glu Leu Pro Ile Phe Leu Ser Cys Gln Lys Lys Ala Leu Arg Val Ser
 35 40 45

Pro Cys Ile Tyr Ser Cys Val Pro Leu Cys Glu Phe Val Phe Pro Ser
 50 55 60

Thr His Phe Pro His Asn His Gln Arg Lys Gly
 65 70 75

<210> 135

<211> 74

<212> PRT

<213> Homo sapien

<400> 135

Met Glu Asn Val Thr Arg His Met Ser Val Ala Val Lys Phe Gln Asn
 1 5 10 15

Ser Ser Asp Ser Arg Gln Glu Ala Lys Leu Asn Leu Ala Ser Phe Asn

100

20

25

30

Leu Asn Ser Pro Leu Trp His Lys Ser Thr Leu Asn Phe Lys Val Asn
35 40 45

Arg Gly Pro Phe Ser Pro Lys His Lys Phe Pro Leu Ala Val Cys Gln
50 55 60

Ser Gly Leu Ile Asn Gln Leu Leu His Cys
65 70

<210> 136
<211> 31
<212> PRT
<213> Homo sapien

<400> 136

Met His Gly Thr Ser Leu Pro Gln Leu Ala Ala Leu Gly Asp Phe Ser
1 5 10 15

Ser Ser Leu Gly Asp Cys Val Ser His Leu Glu Ser Met Cys Val
20 25 30

<210> 137
<211> 56
<212> PRT
<213> Homo sapien

<400> 137

Met Leu Ala Glu Pro Ser Tyr Gly Pro Gln Ser Pro Pro Pro Pro Pro
1 5 10 15

His Arg His Gly Leu Asn Gly Ser Pro Arg Phe Phe Leu Pro Arg Arg
20 25 30

Pro Ala Arg Ala His Pro Ser Gln Leu Arg Arg Ser Ser Ser Ile Arg
35 40 45

Gly Pro Ser Arg Leu Tyr Ile Asp
50 55